

## **DESCRIPTION**

- Permanent installation system, selectable single-amp or bi-amp
- Rotatable HF horn provides mounting options

The MK2300 Series of 2-way, high output, trapezoidal loudspeakers are designed as main PA for smaller venues, including houses of worship, auditoriums/theaters, A/V systems, hotel ballrooms, and meeting rooms. The Series is also ideal for distributed or fill purposes in larger venues, including houses of worship, auditorium/theaters, arenas, stadiums, nightclubs, and themed-entertainment complexes.

To meet the design goals for the intended applications, EAW engineers developed a new, high performance, 3-inch voice coil, compression driver mating it to a selection of six different HF horns with patterns from 60° x 45° to 120° x 60°. The horns are as large as the enclosure size allows to maintain consistent directivity throughout the HF passband. A3inch voice coil, 12 inch LF driver, was designed to complement the sonic character and output of the HF driver. All MK2300 models are carefully voiced to sound similar, permitting diverse horn patterns to be mixed throughout an installation while maintaining the same sonic quality. The results are cleaner, usable, high-fidelity output to significantly higher levels than is normally expected from loudspeakers of this size and price.

Single-amp and bi-amp operating modes are user-selectable. In singleamp mode, the beamwidth-matching passive crossover is designed for even power response through crossover, low power losses, and high power handling. In bi-amp mode a digital signal processor (DSP) is required, providing sophisticated processing to maximize performance.

Foam-backed grilles hide the drivers from view for pleasing aesthetics. Thirteen mounting points allow enclosures to be mounted in virtually any configuration. Additional mounting points mate with OmniMount® 120.0 Series or similar brackets. Standard colors are black and white. Other colors can be specified as a special order items.

The MK2300 are the smaller companions to the MK5300 Series loudspeakers. Enclosures for both series are the same height facilitating installation where more than one horn pattern and/or type of loudspeaker capability is needed. Six Year Warranty.

## 2-WAY FULL-RANGE 60° x 45°

See NOTES TABULAR DATA for details

#### CONFIGURATION

Subsystem

	Transducer	Loading
LF	1x 12 in cone	Vented
HF	1x 1.4 in exit, 3 in voice	Horn-loaded
	coil compression driver	

## **Operating Mode**

	Amplifier Channels	External Signal Processing
Single-amp	LF/HF	High pass filter
Bi-amp	LF, HF	DSP w/2-way filters
FORMANCE 1		

# **PERF**

#### Axial Sensitivity (whole space SPL)

LF/HF	97 dB	70 Hz to 20 kHz
LF	97 dB	70 Hz to 1820 Hz
HF	111 dB	1290 Hz to 17 kHz

#### Input Impedance (ohms)

	Nominal	Minimum
LF/HF	8	7.2 @ 178 Hz
LF	8	7.1 @ 290 Hz
HF	8	8.5 @ 6050 Hz

#### **High Pass Filter**

High Pass =>60 Hz. 12 dB/octave Butterworth

#### Accelerated Life Test 2

LF/HF	69 V	600 W @ 8 ohm
LF	69 V	600 W @ 8 ohm
HF	35 V	150 W @ 8 ohm

## Calculated Axial Output Limit (whole space SPL)

	Average	Peak	
LF/HF	125 dB	131 dB	
LF	125 dB	131 dB	
HF	133 dB	139 dB	

### **ORDERING DATA**

Description	Part Number
MK2364 2-Way Full-Range Loudspeaker Black	0013142
MK2364 2-Way Full-Range Loudspeaker White	0013752
MK2364 2-Way Full-Range Loudspeaker Black-W	P 0013779

## Optional Accessories

Eyebolt/Forged Shoulder (3/8-16 x 1.25 in)	104001
MK2/5000 U-Bracket Black	0007869
MK2/5000 U-Bracket White	0015076



<sup>1</sup> To achieve specified performance, the listed external signal processing with EAW-provided settings is required.

<sup>2</sup> For recommendations to select power amplifier size refer to: "HOW MUCH AMPLIFIER POWER DO I NEED?" on the EAW web site.

## **ENCLOSURE**

Material Baltic birch plywood

Finish Wear resistant textured black paint

Grille Powder-coated perforated steel  $_{\Omega}$ 12 4/21/05 DOCUMENT CONTROL PER SPECIFICATION 4.5.201 EASTERN ACCUSTIC WORKS APVD/DATE SPECIFICATION SCALE: 1 TO INDICATES MOUNTING POINT, 3/8-16 THREADED HOLE (NUT PLATE).
INDICATES MOUNTING POINT, 3/8-16 THREADED HOLE (PI ANGLE).
INDICATES MOUNTING POINT, 5/16-18 T-NUT FOR SERIES 120 OMNI MOUNT. SS REVISED AND RELEASED TO PRODUCTION FROM PROTOTYPE REV 1 PER MCOWHT1474 DM 4/15/05 4 00131 SHEET 1 OF [MECHANICAL CABINE DESCRIPTION NAWING NUMBER: 26.06 [66<sub>1</sub>.9] [127.0] 5.00 [174.5] 4/25/05 4/26/05 4/26/05 2/18/05 3.44 [87.4] DAT INDICATES CENTER OF BALANCE **PRODUCTION** 2. SYMBOL © INDICATES MOUNTING POINT, 3
3. SYMBOL ONDICATES MOUNTING POINT, 5
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5. WEIGHT APPROX. 60.00 Ib [27.2 kg].
6. SHIPPING WEIGHT APPROX. 69.50 [31.5 kg]. BACK RES ⋖ MELANIE APPROVALS RAS ВР S 2 STATUS: DES ENG: 6.06 [153.9] DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE INCHES [MILLIMETERS] TSC=THEORETICAL SHARP CORNER INPUT TOLERANCES LINEAR ± 0.13 in/ ± 3.3 mm ANGLES ±1\* (X.XX) = REF DIMS NO TOLERANCE IMPLIED 26.06 [662.2] **DIMENSIONS APPLY** TO BOTH SIDES 7.00 (NOT TO SCALE) 177.8] VIEW A-A THIS DEARWING IS THE PROPERTY
OF EAW AND SHALL ON UT BE
COPIED, REPRODUCED, ON USED
AS THE BASIS FOR MANUFACTINE
OR SALE OF APPARATIO WITHOUT
SCALE DRAWING. DO NOT THIRD ANGLE PROJECTION  $\phi$ **GRILLE PARTIALLY SHOWN** TOP/BOTTOM **(** FRONT 15.55 222.3 169.91

**NOTES:** This drawing has been reduced. Do not scale. For WP version, add 0.25 in / 6.4 mm to the outside dimensions = 0.125 in / 3.2 mm all around.

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